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APPLICANT : HITACHI POWDERED METALS CO LTD;

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TITLE : WIRE MATERIAL FOR DOT PRINTER

ABSTRACT : PURPOSE: To provide a wire material for dot printer having high toughness and hardness and excellent in wear resistance, by specifying respective contents of C, Si, N, Cr, Mo, W, B, and P in a material composition.

CONSTITUTION: A wire material for dot printer is constituted of a ferrous sintered alloy having a composition consisting of, by weight ratio, 0.1~0.8% C, 0.1~0.9% Si,  $\leq 0.7\%$  Mn, 2~10% Cr, 0.5~2% B,  $\leq 0.05\%$  P, 5~20% Mo and/or W, and the balance Fe. Further, at least one element among Ni, V, Co, Nb, Ta, Ti, Zr, and Hf is incorporated by  $\leq 20\%$ , if necessary. By this composition, a printing wire having a structure in which carbide and double boride or double boron carbide is finely dispersed and also having high toughness and wear resistance can be formed.

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